

FORM PTO 1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Appln. Serial No.:	10/761,498
	Filing Date:	January 20, 2004
	Applicant (s):	Francis MICHON et al.
	Group Art Unit:	1645
Sheet 1 of 5	Atty. Docket No.:	13564.105037

U.S. PATENT DOCUMENTS							
Examiner Initials		Patent No. / Appln. Pub. No.	Issue Date/ Pub. Date	Patentee or Applicant Name	Class	Subclass	Filing Date
	1.	4,673,574	6/16/87	Anderson	424	194.1	7/5/83
	2.	4,761,283	8/2/88	Anderson	424	194.1	3/28/86
	3.	4,808,700	2/28/89	Anderson et al	424	194.1	8/10/84
	4.	4,902,506	2/20/90	Anderson et al	424	194.1	5/5/86
	5.	5,439,808	8/8/95	Blake et al.	435	69.1	7/23/93
	6.	4,619,828	10/28/86	Gordon	424	194.1	1/5/84
	7.	4,459,286	7/10/84	Hillman et al	424	164.1	1/31/83
	8.	4,356,170	10/26/82	Jennings et al	424	194.1	5/27/81
	9.	4,727,136	2/23/88	Jennings et al	424	197.11	10/1/85
	10.	5,576,002	11/19/96	Jennings et al	424	197.11	5/5/94
	11.	5,780,606	7/14/98	Kandil et al	536	18.7	6/7/95
	12.	5,192,540	3/9/93	Kuo et al	424	190.1	2/21/89
	13.	4,057,685	11/8/77	McIntire	536	55.1	5/9/74
	14.	4,711,779	12/8/87	Porro et al	424	194.1	7/2/86
	15.	5,306,492	4/26/94	Porro	424	194.1	7/30/92
	16.	5,445,817	8/29/95	Schneerson et al	424	194.1	8/21/92
	17.	4,965,338	10/23/90	Tabankia et al	528	272	8/9/89
	18.	4,663,160	5/5/87	Tsay et al	424	170.1	3/14/83
	19.	5,554,730	9/10/96	Woiszwilllo et al	530	410	12/23/94

Examiner	Date Considered
EXAMINER:	

FORM PTO 1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Appln. Serial No.:	10/761,498
	Filing Date:	January 20, 2004
	Applicant (s):	Francis MICHON et al.
	Group Art Unit:	1645
Sheet 2 of 5		Atty. Docket No.: 13564.105037

FOREIGN PATENT DOCUMENTS							
Examiner Initials		Patent Number	Publication Date	Country	Class	Sub- Class	Translation
	20.	EP 0747063 A2	12/11/96	EP	A61K	47/48	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	21.	WO 96/40239	12/19/96	PCT	A61K	39/095	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
	22.	WO 97/41897	11/13/97	PCT	A61K	47/48	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

OTHER REFERENCES	
Examiner Initials	Other References (Including Author, Title, Date, Pertinent Pages, Etc.)
	23. Auzanneau, et al. "Preparation of Antigens and Immunoabsorbents Corresponding to the <i>Streptococcus</i> Group A Cell-wall Polysaccharide" <u>Bioorganic & Medicinal Chemistry</u> , 11(4): 2003-2010 (Nov. 1996).
	24. Barington, et al. "Non-Epitope-Specific Suppression Of The Antibody Response To Haemophilus Influenzae Type B Conjugate Vaccines By Preimmunization With Vaccine Components", <u>Infect. Immun.</u> , 61(2): 432-438 (Feb. 1993).
	25. Baumann, et al. "Comparison of the Conformation of the Epitope of a (2→8) Polysialic Acid with its Reduced and N-Acyl Derivatives", <u>Biochemistry</u> , 1993, 32(15): 4007-4013 (Apr. 20, 1993).
	26. Casu et al, "Heparin-Like Compounds Prepared By Chemical Modification Of Capsular Polysaccharide From <i>E. Coli</i> K5," <u>Carbohydrate Research</u> 263 (1994) 271-284.
	27. Corbel, "Control Testing of Combined Vaccines: A Consideration of Potential Problems and Approaches," <u>Biologicals</u> , 22(4): 353-360 (Dec. 1994).
	28. Dick et al, "Glycoconjugates of Bacterial Carbohydrate Antigens", <u>Contributions to Microbiology and Immunology</u> , Library of Congress, pp. 49-114, August 31, 1989.
	29. Eriksson et al, "Expression of the mouse mastocytoma glucosaminyl N-deacetylase/N-sulfotransferase in human kidney 293 cells results in increased N-sulfation of heparin sulfate," <u>Biochemistry</u> 1996 Apr 23; 35(16):5250-5256.
	30. Finke et al, "Biosynthesis of the <i>Escherichia coli</i> K5 Polysaccharide, a Representative of Group II Capsular Polysaccharides: Polymerization In Vitro and Characterization of the Product," <u>Journal of Bacteriology</u> , July 1991, 4088-4094.

Examiner	Date Considered
EXAMINER:	

FORM PTO 1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Appln. Serial No.:	10/761,498
	Filing Date:	January 20, 2004
	Applicant (s):	Francis MICHON et al.
	Group Art Unit:	1645
Sheet 3 of 5		Atty. Docket No.: 13564.105037

OTHER REFERENCES		
Examiner Initials		Other References (Including Author, Title, Date, Pertinent Pages, Etc.)
	31.	Fusco et al: "Preclinical Evaluation Of A Novel Group B Meningococcal Conjugate Vaccine That Elicits Bactericidal Activity In Both Mice And Nonhuman Primates", <u>Journal of Infectious Diseases</u> , (1997 FEB) 175 (2) 364-72., XP000291371, abstract page 364, column 2, paragraph 3 - page 366, column 2, paragraph 2.
	32.	Fusco, et al, "Meningococcal Vaccine Development: A Novel Approach," <u>Exp. Opin. Invest. Drugs</u> , 7(2):245-252, Feb. 1998.
	33.	Geyer et al., "Immunochemical Properties of Oligosaccharide-Protein Conjugate with <i>Klebsiella</i> -K2 Specificity", <u>Med. Microbiol. Immunol</u> , 165: 171-288 (1979).
	34.	Granoff et al., "Bactericidal Monoclonal Antibodies That Define Unique Meningococcal B Polysaccharide Epitopes That Do Not Cross-React with Human Polysialic Acid," <u>The Journal of Immunology</u> , 160 (10): 5028-36, May 15, 1998.
	35.	Hirschberg et al., "Molecular cloning and expression of a glycosaminoglycan N-acetylglucosaminyl N-deacetylase/N-sulfotransferase from a heparin-producing cell line," <u>J Biol Chem</u> 1994 Jan 21; 269(3):2270-2276.
	36.	Jennings et al., "Induction of Meningococcal Group B Polysaccharide-Specific IgG Antibodies in Mice By Using an N-Propionylated B Polysaccharide-Tetanus Toxoid Conjugate Vaccine", <u>The Journal of Immunology</u> , Vol. 137(5):1708-1713 (Sep. 1, 1996).
	37.	Jennings et al., "Unique Intermolecular Bactericidal Epitope Involving The Homosialopolysaccharide Capsule on the Cell Surface of Group B <i>Beisseria meningitidis</i> and <i>Escherichia coli</i> K1, <u>The Journal of Immunology</u> , 142(111), 3584-3591 (May 15, 1989).
	38.	Jennings et al., "Chemically Modified Group B Meningococcal Polysaccharides as Human Vaccines," <u>Proceedings of the National Meeting: Symposium on the Applications and Modifications of Industrial Polysaccharides</u> , NL, Amsterdam, Elsevier, 193:149-156 (1987).
	39.	Kabat, et al. "A Human Monoclonal Macroglobulin With Specificity For a (2 → 8)- Linked Poly-N-Acetyl Neuraminic Acid, The Capsular Polysaccharide Of Group B Meningococci And <i>Escherichia Coli</i> K1, Which Crossreacts With Polynucleotides And With Denatured DNA," <u>J. Exp. Med.</u> , 164(2): 642-654 (Aug. 1986).

Examiner	Date Considered
EXAMINER:	

FORM PTO 1449 INFORMATION DISLCOSURE STATEMENT BY APPLICANT	Appln. Serial No.:	10/761,498
	Filing Date:	January 20, 2004
	Applicant (s):	Francis MICHON et al.
	Group Art Unit:	1645
Sheet 4 of 5		Atty. Docket No.: 13564.105037

OTHER REFERENCES		
Examiner Initials		Other References (Including Author, Title, Date, Pertinent Pages, Etc.)
	40.	Kjellén et al, "Two Enzymes In One: N-Deacetylation and N-Sulfation In Heparin Biosynthesis Are Catalyzed By The Same Protein," <u>Adv Exp Med Biol</u> 1992; 313:107-111.
	41.	Kusche et al, "Biosynthesis of heparin. Purification of a 110-kKa mouse mastocytoma protein required for both glucosaminyl N-deacetylation and N-sulfation," <u>J. Biol Chem</u> 1991 May 5; 266(13):8044-8049.
	42.	Kusche-Gullberg et al, "Identification and Expression in Mouse of Two Heparan Sulfate Glucosaminyl N-Deacetylase/N-Sulfotransferase Genes," <u>The Journal of Biological Chemistry</u> , May 1, 1998, Vol. 273, No. 19, pp. 11902-11907.
	43.	Legoux et al, "N-acetyl-heparosan lyase of Escherichia coli K5: gene cloning and expression," <u>J. Bacteriol</u> 1996 Dec; 178(24)7260-7264.
	44.	Lidholt et al, "Substrate specificities of glycosyltransferases involved in formation of heparin precursor and E. coli K5 capsular polysaccharides," <u>Carbohydrate Research</u> , 255(1994) 87-101.
	45.	Pichichero et al., "Avidity Maturation of Antibody to <i>Haemophilus influenzae</i> Type b (Hib) after Immunization with Diphtheria-Tetanus-Acellular Pertussis-Hib-Hepatitis B Combined Vaccine in Infants", <u>The Journal of Infectious Diseases</u> , 180:1390-3, October 1999.
	46.	Pon, RA. "The Study of Polysialic Acid Conjugates. Master's Thesis, University of Ottawa, pp. 1-251, UMI Dissertation Services, 1992.
	47.	Romanowska, A. et al, "Michael Additions for Syntheses of Neoglycoproteins," <u>Methods in Enzymology</u> , 1994, 242:90-101.
	48.	Roy et al. "Direct Access To Neoglycoproteins and Glycopolymers From Single Precursors. Synthesis of T-Antigen and N-acetyl-lactosamine- β -D-(1 \rightarrow 6)- α -D-GalNAc Conjugates", <u>Bioorganic & Medical Chemistry Letters</u> , 2(9): 911-914 (Sep. 1992).
	49.	Roy et al, "Michael addition as the key step in the syntheses of sialyloligosaccharide-protein conjugates from N-acryloylated glycopyranosylamines" <u>J. Chem. Soc., Chem. Commun.</u> , 23: 1709-1711 (1990).

Examiner	Date Considered
EXAMINER:	

FORM PTO 1449 INFORMATION DISLCOSURE STATEMENT BY APPLICANT	Appln. Serial No.:	10/761,498
	Filing Date:	January 20, 2004
	Applicant (s):	Francis MICHON et al.
	Group Art Unit:	1645
Sheet 5 of 5		Atty. Docket No.: 13564.105037

OTHER REFERENCES		
Examiner Initials		Other References (Including Author, Title, Date, Pertinent Pages, Etc.)
	50.	Roy et al, "Efficient Synthesis of α (2-8)-Linked N-Acetyl and N-Glycolylneuraminic Acid Disaccharides from Colominic Acid," <u>Glycoconjugate J</u> (1990) 7:3-12.
	51.	Roy, et al. "Syntheses and transformations of glycohydrolase substrates into protein conjugates based on Michael additions" <u>J. Chem. Soc., Chem. Commun.</u> , 7: 536-538 (1991).
	52.	Roy et al., "Michael addition of poly-L-lysine to N-acryloylated sialosides. Syntheses of influenza A virus haemagglutinin inhibitor and group B meningococcal polysaccharide vaccinst," <u>J. Chem. Soc., Chem. Commun.</u> , 264-265 (1993).
	53.	Silbert, "Biosynthesis of heparin. IV. N-Deacetylation of a precursor glycosaminoglycan," <u>J Biol Chem</u> 1967 Nov 10; 242(21):5153-5157.
	54.	Zhang et al., "Helium Ion Implanted Optical Waveguide in KTiOPO", <u>Electronic Letters</u> , 28:7, March 26, 1992.

Examiner	Date Considered
EXAMINER:	